DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

MCO 3470.2
SSCGP
26 Jul 91

MARINE CORPS ORDER 3470.2 W/CH 1

From: Commandant of the Marine Corps
To: Distribution List

Subj: MATERIEL FIELDING PLAN (MFP) FOR THE MARINE OVERSNOW MOBILITY SYSTEM (MOMS) COMPONENTS

Ref: (a) MCO P4105.3

Encl: (1) Materiel Fielding Plan for the Marine Oversnow Mobility System Components

1. Purpose. The enclosure is published per the provisions of the reference. It is intended to serve as the single, stand alone document which consolidates all actions, schedules, procedures, requirements, and information necessary to ship, receive, deploy, and sustain the MOMS.

2. Information. The MFP provides information in sufficient detail, accuracy, and timeliness to allow field commanders of the receiving and supporting units to plan and budget for the arrival and support of the MOMS.

3. Action. The commanders of each organizational element concerned shall ensure implementation of the provisions of the Order.

4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

R. A. TIEBOUT
By direction

DISTRIBUTION: PCN 10203335100

Copy to: 7000110 (55)
7230054, 055 (5)
8145004, 005 (2)
7000106, 144/7256040/8145001 (1)

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

MCO 3470.2 Ch 1
SSCGP
13 Aug 93

MARINE CORPS ORDER 3470.2 Ch 1

From: Commandant of the Marine Corps
To: Distribution List

Subj: MATERIEL FIELDING PLAN (MFP) FOR THE MARINE OVERSNOW MOBILITY SYSTEM (MOMS) COMPONENTS

Encl: (1) New page inserts to MCO 3470.2

1. Purpose. To transmit new page inserts to the basic Order.

2. Summary of Change. The primary purpose of this Change is to update the subject MFP with accurate information for ordering purposes.

3. Action

a. Remove pages 2, 3, and A-1 of the enclosure to the basic Order and replace with corresponding pages contained in the enclosure.

b. Insert new page 2a of the enclosure to the basic Order.

4. Change Notation. Paragraphs denoted with an asterisk (*) symbol contain changes not previously published.

5. Filing Instructions. File this Change transmittal immediately behind the signature page of the basic Order.

J. A. BRABHAM
By direction

DISTRIBUTION: PCN 10203335101

Copy to: 7000110 (55)
7230054, 055 (5)
7230068/8145004, 005 (2)
7000099, 144/7256040/8145001 (1)

MATERIEL FIELDING PLAN
OF THE
MARINE OVERSNOW MOBILITY SYSTEM COMPONENTS

1. Introduction

a. Source of Requirement. The Marine Corps is researching hardware systems to fulfill critical requirements for an oversnow mobility capability in extreme cold and arctic weather (ROC Log 211.4). Oversnow mobility is one of the primary reasons that cold weather operations are more difficult than operations in temperate climates. An over-the-snow capability will allow Marines to move through snow and ice conditions more easily allowing them to contact and engage in combat more rested and capable of fighting. The MOMS consists of skis, bindings, poles, boots, and snowshoes. Connection of ski poles will make a longer avalanche probe. The poles are also made of a lightweight, but durable, single shaft aluminum.

* b. Points of Contact

Activity	Title	Telephone
MARCORSYSCOM SSC	Program Manager Combat Service Support	703-640-4281 DSN 278-4281
MARCORSYSCOM SSC	Asstn Program Manager Combat Service Support	703-640-4296 DSN 278-4296
MARCORSYSCOM SSCGP	Project Officer Combat Service Support	703-640-4290 DSN 278-4290

c. Fielding Methodology

(1) General Fielding Plan. MOMS will be fielded as three separate items; the first will be the ski system consisting of the skis, bindings and poles; the second, the ski-march boot; and the final being the assault snowshoe. Bindings will be delivered unattached to the skis. Additionally, MOMS will be fielded in three increments. Appendix A shows the planned distribution and delivery schedule of MOMS.

(2) Method of Fielding. MOMS will be force-fed to the units in the quantities cited in appendix A. Therefore, the submission of requisitions for MOMS will not be required.

d. Replaced Systems Equipment. The MOMS will replace the following items of equipment:

ITEM	TAMCN	NSN	ID NO.
SKI, ALL TERRAIN, W/O BINDING	V4600 IIE	8465-01-085-1935 8465-00-606-7284	01723E
BINDING ASSEMBLY, SKI	V4430 IIE	8465-01-020-5518	01720C
POLE, SKI	V4560 IIE	8465-00-753-6142	01700A

2. System Description

a. Administrative Information

* (1) Ski

(a) Nomenclature: ski, military, cross country
(b) TAMCN: V4601 II EP
(c) SAC: 1
(d) NSN: 190cm: 8465-01-335-2649
200cm: 8465-01-335-2650
210cm: 8465-01-335-2651
(e) Unit of Issue: pair
(f) Unit Cost: $145.00
(g) Support Cost: none
(h) Petroleum, Oil, and Lubricants: none
(i) Equipment Density: normal
(j) Readiness Reporting: not MARES reportable

* (2) Binding

(a) Nomenclature: binding, ski, cable
(b) TAMCN: V4431 II EP
(c) SAC: 1
(d) NSN: 700cm: 8465-01-334-9508
740cm: 8465-01-334-9509
780cm: 8465-01-334-9510
(e) Unit of Issue: set
(f) Unit Cost: $65.00
(g) Support Cost: none
(h) Petroleum, Oil, and Lubricants: none
(i) Equipment Density: normal
(j) Readiness Reporting: not MARES reportable

* (3) Pole

(a) Nomenclature: pole, ski, avalanche probe
(b) TAMCN: V4561 II EP

(c) SAC: 1
(d) NSN: 8465-00-753-6142
(e) Unit of Issue: pair
(f) Unit Cost: $30.00
(g) Support Cost: none
(h) Petroleum, Oil, and Lubricants: none
(i) Equipment Density: normal
(j) Readiness Reporting: not MARES reportable

(4) Boot

(a) Nomenclature: boot, ski-march
(b) TAMCN: V4008 IIEP
(c) SAC: 1
(d) NSN: V4008II EP
(e) Unit of Issue: pair
(f) Unit Cost: $350.00
(g) Support Cost: none
(h) Petroleum, Oil, and Lubricants: none
(i) Equipment Density: normal
(j) Readiness Reporting: non-MARES reportable

(5) Snowshoe

(a) Nomenclature: snowshoe, assault
(b) TAMCN: V4355 IIEP
(c) SAC: 1
(d) NSN: V4355II EP
(e) Unit of Issue: pair
(f) Unit Cost: $50.00 est
(g) Support Cost: none
(h) Petroleum, Oil, and Lubricants: none
(i) Equipment Density: normal
(j) Readiness Reporting: non-MARES reportable

b. Physical Characteristics

	Operational Configuration		Storage/Shipping Configuration
(1) Ski			
(a) Length:	78.74	in	80 in
(b) Width:	3.02	in	12 in
(c) Height:	.9	in	4 in
(d) Weight:	6.4	lbs	64 lbs
(e) Square:	237.70	in	960 in
(f) Cube:	214.06	cubic in	3840 cubic in
(2) Binding			
(a) Length:	15.75	in	18 in
(b) Width:	4.5	in	12 in
(c) Height:	1.75	in	8 in
(d) Weight:	1.5	lbs	30 lbs
(e) Square:	70.875	in	216 in
(f) Cube:	124.03	cubic in	1728 cubic in
(3) Pole			
(a) Length:	58	in	60 in
(b) Width:	1.5	in	15 in
(c) Height:	1.5	in	8 in

(d) Weight:	.5	lb	20 lbs
(e) Square:	87	in	900 in
(f) Cube	130.5	cubic in	7200 cubic in

(4) Boot (still under development)

(a) Length
(b) Width:
(c) Height:
(d) Weight:
(e) Stowage:

(5) Snowshoe (still under development)

(a) Length:
(b) Wight:
(c) Height:
(d) Weight:
(e) Stowage:

c. Operational Characteristics

(1) Ski. This ski is the Asnes Fjellski MT-65. It has a center core of spruce and birch with the tip and tail made of acrylonitrile butadiene styrene (ABS). The complete core is enclosed in a sole of polyethylene. The upper surface and sidewalls are white. The bottom is black and also made of polyethylene. Steel edges run the length of the ski. The ski also has a tailplate, a binding reinforcement plate, a bottom groove, a 10 mm tip hole, and a tail groove to hold climbing skins.

(2) Bindings. The new ski binding is the modified NATO binding. It is lightweight, simple to use, and easy to maintain. It is designed to be compatible with the new military skis and ski-march or vapor barrier boots. The new ski binding is safe for use by Marines whose skiing experience ranges from novice to advanced and provides adequate support and control so that a Marine can perform the required skiing maneuvers.

(3) Poles. The new avalanche probe, ski pole, differs from the existing pole in that the handle is removable to facilitate connection of ski poles making a longer avalanche probe. The poles are also made of a lightweight, but durable, single shaft aluminum.

(4) Boots. The ski-march boot system integrates a synthetic liner sock next to the skin, a "vapor barrier" sock over the liner sock (to lock in all internal moisture), and an insulating sock over the vapor barrier sock. The boot itself is constructed of black, top grain leather, has a wedge midsole, ultra high-cut upper, bellows tongue, and a 75 mm norm sole. The boot is built not only to go long distance on skis, but also over rough terrain as a march boot when not on skis. On top of the boot will be a full-length gaiter. If movement

stops for longer than five minutes, the whole system is placed into a full-length insulated waterproof overboot. The overboot will insulate not only around the boot but also the bottom of the boot.

(5) Snowshoe. The assault snowshoe is a lightweight, downsized snowshoe. It has an opening in the webbing to allow the toe of the Marine's foot to pass through so as to walk or run in anatomically normal fashion. The bottom of the snowshoe bindings have teeth to increase traction up steep terrain. The snowshoes are short and will only support a Marine with an assault load. They will be used to close with the enemy and for close combat.

d. Associated Weapons Systems. The MOMS will be designed to function with the Extreme Cold Weather Clothing System (ECWCS).

e. The quantities reflected in appendix A represent the total T/E allowance for each unit. For FMF units, these quantities also represent both the FMF Commander's Authorized Allowance and Field Allowance as described in MCO 4000.10F.

3. Logistic Support

a. Maintenance Support. There will be no changes in existing maintenance support.

b. Contractor Support Requirements. No contractor support will be required.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. There are no changes to the personnel requirements of the existing ski, binding and pole.

(2) Training Requirements. There are no new training requirements.

(3) Training Support Items. There are no new training support items required.

d. Supply Support. Not applicable.

e. Support Equipment. There are no special support equipment required.

f. Technical Publications. For the items that require instructions, maintenance, care or cleaning, either a commercial manual, brochure, pamphlet or instruction sheet, as applicable, will be provided. The commercial manual, brochure, pamphlet or instruction sheet, as applicable, will be overpacked with the initial shipment of these items. Publication control numbers (PCN's) are not available.

g. Computer Resources Support. There will be no special computer resources required for the MOMS.

h. Facilities. No special facilities are required to field the MOMS.

i. Packaging, Handling, Storage, and Transportation

(1) Packaging. Contractor packaging data developed on provisioned items will be per ASTM D 3951. The contractor is responsible for the application of preservation and packing on all items to be delivered to the Marine Corps. Methods, materials, and test procedures will be in accordance with MIL-D-116. Markings will conform to MIL-STD-129.

(2) Handling. The design of these items will provide maximum convenience and safety to personnel who wear or operate them. When packaged these items will be capable of being lifted and handled by standard Marine Corps material handling equipment (MHE).

(3) Storage. There are no special storage requirements for these items.

(4) Transportation. The transport of these items will be per the provisions of ASTM D 3951.

j. Warranties. There is no warranty.

4. Actions Required To Place Equipment In Service

a. Gaining Command

(1) Commanding General, Fleet Marine Force, Atlantic. Appoint a single POC in the II Marine Expeditionary Force (MEF) and the 1st Marine Corps District responsible for coordinating the fielding of MOMS.

(2) Commanding General, Fleet Marine Force, Pacific. Appoint a single POC in each of I and III MEF's, the 1st Marine Expeditionary Brigade (MEB), the Marine Corps Security Battalion, and the MCMWTC responsible for coordinating the fielding of MOMS.

(3) Chief, U.S. Logistic Coordination Center, Norway. Appoint a single POC responsible for coordinating the fielding of MOMS.

(4) All Gaining Commands

(a) Depending on method of shipment and packaging, material handling equipment may be required for unloading MOMS.

(b) Upon receipt, the systems will be reported as controlled items per the provisions of MCO P4400.82F.

(c) Once in service, defect reporting and maintenance support will be accomplished in accordance with current directives.

b. MCLB, Albany

(1) When requested by the Commanding General, Marine Corps Research, Development and Acquisition Command and in coordination with the POC's, direct the shipment of MOMS from the manufacturer to the designated recipients.

(2) Assume total logistics responsibility for MOMS as of the initial in-service date.

c. CG, MCRDAC

(1) Request the Commanding General, MCLB (Code 835-4), Albany to coordinate the shipment of MOMS to the gaining commands.

* LIST OF ALLOWANCES AND DELIVERY SCHEDULES

T/E NO	UNIT	SKI QTY	SKI BIND QTY	SKI POLE QTY	SKI BOOT QTY	SNOW SHOE QTY
6502	MCSF Bn (Lant)	25	25	25	25	25
7671	MWTC	1245	1245	1825	1500	1226
N0001	I MEF	575	390	859	575	399
N0002	II MEF	4350	4350	4350	4350	4102
N0003	III MEF	875	875	1301	875	898
N0004	1st MEB	185	185	185	185	190
N1442	Recon Co, ReconBn, 4th MarDiv	50	50	50	50	51
W1022	Det, SCAMP, HQBn/PREPONOR	4	4	4	4	4
W1121	HqCo, InfRegt/PREPONOR	36	36	36	36	37
W1172	HQSVC, InfBn, InfRegt/PREPONOR	267	267	267	267	273
W1321	Det, HQSVC/PREPONOR	4	4	4	4	4
W1421	Det, HQSVC, ReconBn/PREPONOR	91	91	91	91	94
W4623	Det, ForReconCo/PREPONOR	21	21	21	21	22
W4852	Det, ANGLICO/PREPONOR	100	100	100	100	103
	TOTALS	7828	7643	9118	8083	7428

* DELIVERY SCHEDULE AND PRIORITIES

	FY94	FY95	FY96	FY97
Planned Procurement Schedule	2,695	2,695	2,695	
Planned Issue to Field		2,695	2,695	2,695

Initial deliveries are scheduled to begin 4th qtr FY93.